Week 10

Monday April 3 *Class 22*

Curvilinear Coordinates. We'll examine the various curvilinear coordinate systems right before we begin Multiple Integration, where these coordinate transformations play an important role.

Reading:

Williamson & Trotter, (Section 6.5)

Homework #21:

Williamson & Trotter, page 308: 3, 4, 6, **7**, **9, 10**, 12. EXTRA CREDIT page 309: 15; Chapter 6 Review: page 310, 10, 21, **29, 30, 36, 37** EXTRA CREDIT page 310: 16, 33, 38.

QUIZ #8 DUE

HW # 19 and HW #20 DUE

Tuesday April 4 : *Review Session*

Reviewing for Exam 2. The Review session will be 4:30-6:30pm, location TBA.

Wednesday April 5 *Class 24*:

Exam 2. The second midterm exam will be on the topics since Exam 1.

Reading:

Williamson & Trotter, (Section 5.4, 5.5, 6.1, 6.2, 6.3, 6.4, 6.5)

Homework #22:

Friday April 7 *Class 25*:

Introduction to Multiple Integration. We'll learn how to computer iterated (repeated) integrals over rectangular and non-rectangular regions.

Reading:

Williamson & Trotter, (Section 7.1)

Homework #24:

Williamson & Trotter, page 321: 3,4,5,**6,7**,11,12,**16,17,21**
Extra Credit page 322: 24, 29

Quiz # 9